



ULTRAFLOW

EXPRESS DELIVERY ✓

HUGE STOCK ✓

MADE IN
THE UK ✓

ULTRAFLOW & ULTRAFLOW AIR
**UNVENTED HOT WATER
CYLINDER RANGE**

Direct & Indirect Cylinders
Horizontal Cylinders
Air Cylinders
Solar Cylinders
Heat pump Cylinders
Pre Plumbed Cylinders
Buffer Stores
Underfloor Heating



ULTRARELIABLE • ULTRAPERFORMANCE • ULTRAEFFICIENT



INTRODUCING ULTRAFLOW

This premium brand of unvented cylinders is offered only through L&M Heating Supplies Limited. Our UK - manufactured range of stainless steel cylinders come fully ERP compliant & WRAS approved, accompanied by a 25 year warranty, and are supplied with best in class components from industry leading manufacturers.

Using duplex stainless steel in our tanks offers superior corrosion resistance and longevity as part of a hot water system. Combine this with market leading reheat performance and superb heat loss statistics, Ultraflow is designed to offer unrivalled efficiency for the end users.

Quick Deliveries

The best ability of any product in the marketplace is availability. That is why the Ultraflow Heat Pump Cylinders, Ultraflow Standard Cylinders and Ultraflow Air range are stocked extensively for quick deliveries throughout the country at L&M Heating Supplies.

By keeping stock in our distribution warehouses in Enfield and Northampton, we have easy access to the national road network for any requirements, both in terms of quantity and timeframe to suit you. Cylinders are available for quick dispatch for tighter timeframe jobs, or can be scheduled to suit regular call-offs, please speak to our team to arrange this.

For other more bespoke products and unusual products, our manufacture lead times are kept to a minimum to avoid downtime for you, or your customer. Please contact us to enquire about any one-off or bespoke requirements you may have, and our expert team will do our best to help, if your chosen hot water cylinder is not available off-the-shelf.

Most of the goods are despatched same day or following day. A great part of the delivery area is covered on our own transport. Enquire with us on **020 8443 5111** or sales@ultraflowuk.com

ERP and QUALITY COMPLIANCE

The Ultraflow brand has been designed with efficiency, and the environment in mind. Each cylinder comes supplied with full ErP and technical data labelling, so both the homeowner and installer are aware of the performance criteria met by their Ultraflow or Ultraflow Air hot water storage cylinder.

The Energy Related Products (ErP) Directive is a European Regulation that all hot water products in the marketplace must meet, and based on energy consumption are allocated energy bands, such as A, B, C. All of our product technical data is available later in this brochure, and the data provided can be logged for use in performance-based software, such as SAP.

All of the mains-pressure hot water cylinders in this brochure are meticulously manufactured, and have been tested where appropriate for quality to the details found in BS EN 12897:2006 and 12897:2016. Most of our products also come with full WRAS approval, and test results verified as part of our Building Regulations certification by NSF labs, to ensure part L and G3 conditions are met by the Ultraflow and Ultraflow Air range.

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Technical details available at Ultraflowuk.com

ULTRAFLOW INDIRECT

Specifications

- 25 year warranty on cylinders and 2 year on parts
- Fully insulated with 50mm insulation to minimize heat loss
- Manufactured with high grade Duplex Stainless steel
- Supplied complete with high quality unvented kit (page 20)
- Mechanical cylinder stat included
- Highly efficient coil to minimize reheat time & save fuel bills
- High quality 3kW incoloy immersion heater supplies
- Secondary return on 200Ltr and above std cylinders

Upgrades available on request

- Highflow cyl with 1" hot and cold conn & 28mm inlet group
- 6kW incoloy, 3kW or 6kW titanium immersion
- Extra Immersion(s)
- Bigger coil for High Gain / Quick Recovery
- Larger capacity expansion vessel

Connection Sizes

3/4" comp:	Hot Draw, Cold Feed, Sec Ret & Coil Conns
1 3/4" F:	Immersion(s)
1/2" F:	T & P relief Valve



STANDARD INDIRECT UNVENTED

Litre	Code	Diameter (mm)	Height (mm)	Nominal capacity (l)	Coil Rating (kw)	Reheat Time (mins)	Immersion heater(s)	Standing Heat Loss		ERP Band	Weight (kg)
								kWH/24h	Watts		
90	UI90	545	727	90	15.89	14	1	1.01	42	B	22
120	UI120	545	915	120	17.76	17	1	1.06	44	B	25
150	UI150	545	1100	150	18.25	21	1	1.22	51	B	28
170	UI170	545	1224	170	19.35	27	1	1.34	56	B	32
200	UI200	545	1414	200	19.94	31	1	1.44	60	B	35
250	UI250	545	1722	250	20.68	36	1	1.75	73	C	41
300	UI300	545	1975	300	23.57	41	1	2.04	85	C	45
400 *	UI400	690	1580	400	27.58	45	2	2.2	92	C	76
500 *	UI500	690	1910	500	28.49	56	2	2.42	101	C	92

* These cyl come with 1" hot outlet and cold feed and a second immersion heater

SLIM INDIRECT UNVENTED - 475mm

Litre	Code	Diameter (mm)	Height (mm)	Nominal capacity (l)	Coil Rating (kw)	Reheat Time (mins)	Immersion heater(s)	Standing Heat Loss		ERP Band	Weight (kg)
								kWH/24h	Watts		
60	UIS60	475	714	60	14.62	15	1	0.94	39	B	19
90	UIS90	475	977	90	15.17	16	1	1.06	44	B	21
120	UIS120	475	1240	120	18.76	19	1	1.25	52	B	25
150	UIS150	475	1505	150	18.82	21	1	1.42	59	C	29
170	UIS170	475	1680	170	19.22	24	1	1.51	63	C	33
200	UIS200	475	1950	200	19.36	29	1	1.58	66	C	37

Dimension are to be used as guideline only

ULTRAFLOW DIRECT



Specifications

- 25 year warranty on cylinders and 2 year on parts
- Fully insulated with 50mm insulation to minimize heat loss
- Manufactured with high grade Duplex Stainless steel
- Supplied complete with high quality unvented kit (page 20)
- High quality 3kW incoloy immersion heater supplies
- Secondary return on 200ltr and above models

Upgrades available on request

- Highflow cyl with 1" hot and cold conn & 28mm inlet group
- 6kW incoloy, 3kW or 6kW titanium immersion
- Extra Immersion(s)
- Larger capacity expansion vessel

Connection Sizes

3/4" comp:	Hot Draw, Cold Feed
1 3/4" F:	Immersion(s)
1/2" F:	T & P relief Valve

STANDARD DIRECT UNVENTED

Litre	Code	Diameter (mm)	Height (mm)	Nominal capacity (l)	Immersion heater(s)	Standing Heat Loss		ERP Band	ERP efficiency	Weight (kg)
						kWH/24h	Watts			
90	UD90	545	727	90	1	1.01	42	C	36	19
120	UD120	545	915	120	2	1.06	44	C	36	23
150	UD150	545	1100	150	2	1.22	51	C	36	26
170	UD170	545	1224	170	2	1.34	56	C	37	30
200	UD200	545	1414	200	2	1.44	60	C	37	34
250	UD250	545	1722	250	2	1.75	73	C	38	37
300	UD300	545	1975	300	2	2.04	85	C	38	43

SLIM DIRECT

Litre	Code	Diameter (mm)	Height (mm)	Nominal capacity (l)	Immersion heater(s)	Standing Heat Loss		ERP Band	ERP efficiency	Weight (kg)
						kWH/24h	Watts			
60	UDS60	475	714	60	1	0.94	39	C	37	19
90	UDS90	475	977	90	1	1.06	44	C	36	21
120	UDS120	475	1240	120	2	1.25	52	C	36	25
150	UDS150	475	1505	150	2	1.42	59	C	36	29
170	UDS170	475	1680	170	2	1.51	63	C	34	33
200	UDS200	475	1950	200	2	1.58	66	C	37	37

Dimension are to be used as guideline only

ULTRAFLOW SOLAR

Specifications

- 25 year warranty on cylinders and 2 year on parts
- Fully insulated with 50mm insulation to minimize heat loss
- Manufactured with high grade Duplex Stainless steel
- Supplied complete with high quality unvented kit (page 20)
- Mechanical cylinder stat included
- Highly efficient coil to minimize reheat time & save fuel bills
- High quality 3kW incoloy immersion heater supplies
- Secondary return on 200l & above sizes

Upgrades available on request

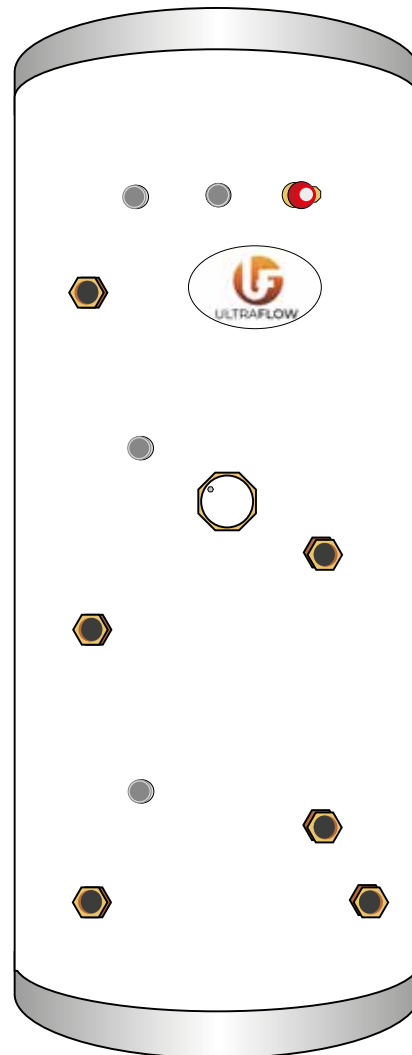
- Highflow cyl with 1" hot and cold conn & 28mm inlet group
- 6kW incoloy, 3kW or 6kW titanium immersion
- Extra Immersion(s)
- Bigger coil for high gain / quick recovery
- Larger capacity expansion vessel

Connection Sizes

3/4" comp: Hot Draw, Cold Feed, Sec Ret, Solar Coil & Boiler Coil

1 3/4" F: Immersion(s)

1/2" F: T & P relief Valve



STANDARD SINGLE COIL SOLAR UNVENTED

Litre	Code	Diameter (mm)	Height (mm)	Nominal capacity (l)	Coil Rating (kw)	Reheat Time (mins)	Immersion heater(s)	Standing Heat Loss		ERP Band	Weight (kg)
								kWH/24h	Watts		
150	UWD150	545	1075	150	17.8	-	2	1.22	51	B	30
170	UWD170	545	1224	170	18.76	-	2	1.34	56	B	32
200	UWD200	545	1414	200	19.65	-	2	1.44	60	B	35
250	UWD250	545	1722	250	21.24	-	2	1.75	73	C	42
300	UWD300	545	1975	300	17.8	-	2	2.04	85	C	46

STANDARD TWIN COIL SOLAR UNVENTED

Litre	Code	Diameter (mm)	Height (mm)	Nominal capacity (l)	Coil Rating (kw)	Reheat Time (mins)	Immersion heater(s)	Standing Heat Loss		ERP Band	Weight (kg)
								kWH/24h	Watts		
150	UWI150	545	1100	150	16.8/16.8	16	1	1.22	51	B	30
170	UWI170	545	1224	170	17.8/17.8	18	1	1.34	56	B	34
200	UWI200	545	1414	200	18.8/18.5	21	1	1.44	60	B	37
250	UWI250	545	1722	250	19.7/19.2	24	1	1.75	73	B	45
300	UWI300	545	1975	300	21.2/20.1	27	1	2.04	85	C	49

SLIM TWIN COIL SOLAR UNVENTED

Litre	Code	Diameter (mm)	Height (mm)	Nominal capacity (l)	Coil Rating (kw)	Reheat Time (mins)	Immersion heater(s)	Standing Heat Loss		ERP Band	Weight (kg)
								kWH/24h	Watts		
150	UWIS150	475	1505	150	18.3/18.8	14	1	1.42	59	C	40
170	UWIS170	475	1680	170	19.4/19.2	17	1	1.51	63	C	45
200	UWIS200	475	1950	200	19.9/19.3	21	1	1.58	66	C	48

Dimension are to be used as guideline only

ULTRAFLOW HORIZONTAL

Specifications

- 25 year warranty on cylinders and 2 year on parts
- Fully insulated with 50mm insulation to minimize heat loss
- Manufactured with high grade Duplex Stainless steel
- Supplied complete with high quality unvented kit (page 20)
- Mechanical cylinder stat included
- High quality 3kW incoloy immersion heater supplies
- Highly efficient coil to minimize reheat time & save fuel bills
- **150l and above cylinders comes with 2x immersion heaters as standard**

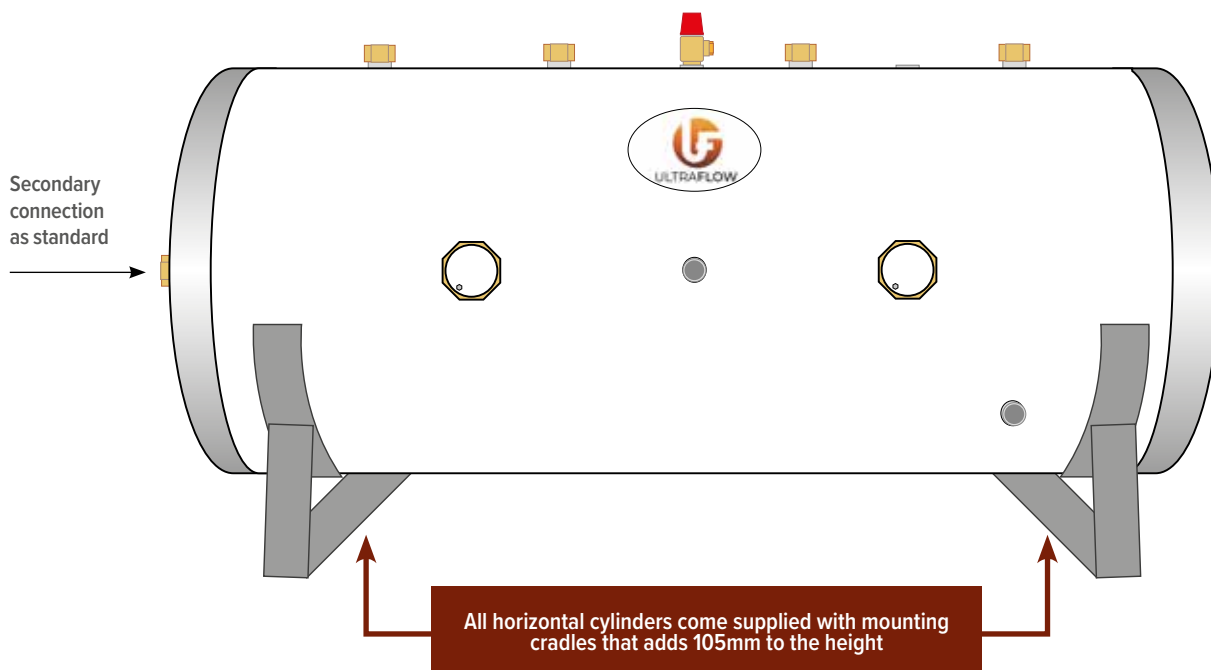
Connection Sizes

3/4" comp:	Hot Draw, Cold Feed, Secondary Return & Coil Connections
1 3/4" F:	Immersion(s)
1/2" F:	T & P relief Valve

Upgrades available on request

- Highflow cyl with 1" hot and cold conn & 28mm inlet group
- 6kW incoloy, 3kW or 6kW titanium immersion
- Extra Immersion(s)
- Larger capacity expansion vessel

INDIRECT HORIZONTAL CYLINDERS ARE AVAILABLE IN SLIMLINE 475MM DIAMETER UPTO 200 LTR ON REQUEST.



STANDARD HORIZONTAL INDIRECT UNVENTED

Litre	Code	Diameter (mm)	Height (mm)	Nominal capacity (l)	Coil Rating (kw)	Reheat Time (mins)	Immersion heater(s)	Standing Heat Loss		ERP Band	Weight (kg)
								kWh/24h	Watts		
120	UIH120	545	915	120	15.8	17	1	1.3	54	C	27
150	UIH150	545	1100	150	16.5	22	2	1.56	65	C	33
170	UIH170	545	1224	170	18.00	22	2	1.66	69	C	38
200	UIH200	545	1414	200	19.94	25	2	1.87	78	C	40
250	UIH250	545	1722	250	20.68	28	2	2.11	88	C	46
300	UIH300	545	1975	300	23.57	32	2	2.3	96	C	50
400 *	UIH400	690	1580	400	27.58	52	2	2.42	101	C	76
500 *	UIH500	690	1910	500	28.49	54	2	2.56	106	C	92

* These cyl come with 1" hot outlet and cold feed.

Dimension are to be used as guideline only

ULTRAFLOW HEATPUMP

Specifications

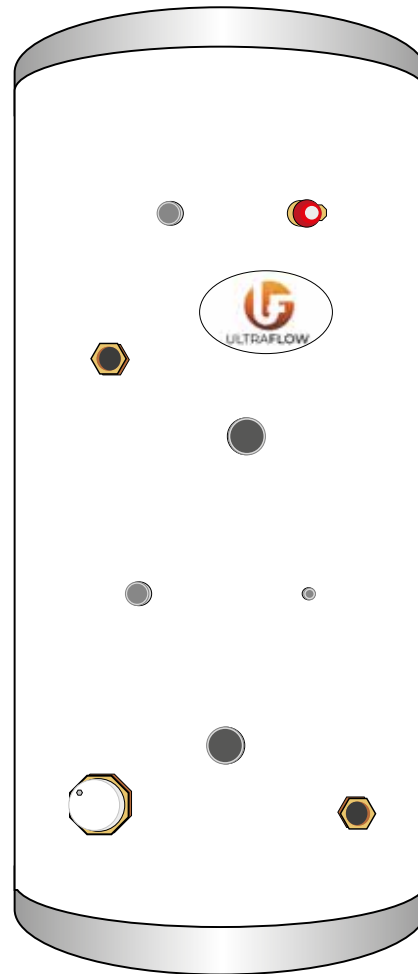
- 25 year warranty on cylinders and 2 year on parts
- Fully insulated with 50mm insulation to minimize heat loss
- Manufactured with high grade Duplex Stainless steel
- Supplied complete with high quality unvented kit (page 20)
- 10mm sensor probe pocket included for heat pump control
- Highly efficient coil to maximise heat exchange with heat pump
- High quality 3kW incoloy immersion heater supplies
- Secondary return on 200Ltr and above cylinders on std models
- Supplied with 28mm coil connection and 22mm hot and cold connection

Upgrades available on request

- Highflow cyl with 1" hot and cold conn & 28mm inlet group
- 6kW incoloy, 3kW or 6kW titanium immersion
- Extra Immersion(s)
- Larger capacity expansion vessel

Connection Sizes

3/4" comp:	Hot Draw, Cold Feed, Sec Ret
1" F:	HP flow and HP return
1 3/4" F:	Immersion(s)
1/2" F:	T & P relief Valve



STANDARD HEATPUMP UNVENTED

Litre	Code	Diameter (mm)	Height (mm)	Nominal capacity (l)	Coil Rating (kw)	Heat Pump Coil surface area (m2)	Immersion heater(s)	Standing Heat Loss		ERP Band	Weight (kg)
								kWH/24h	Watts		
150	UI150-HP	545	1100	150	24.67	2.08	1	1.22	44	B	37
170	UI170-HP	545	1224	170	24.67	2.08	1	1.63	68	C	43
200	UI200-HP	545	1414	200	31.5	2.97	1	1.70	71	C	49
250	UI250-HP	545	1722	250	33.08	2.97	1	1.99	83	C	53
300	UI300-HP	545	1945	300	35.44	2.97	1	2.26	94	C	57
400*	UI400-HP	690	1580	400	36.94	4.00	2	1.95	81	C	76
500*	UI500-HP	690	1910	500	36.44	4.00	2	2.31	96	C	92

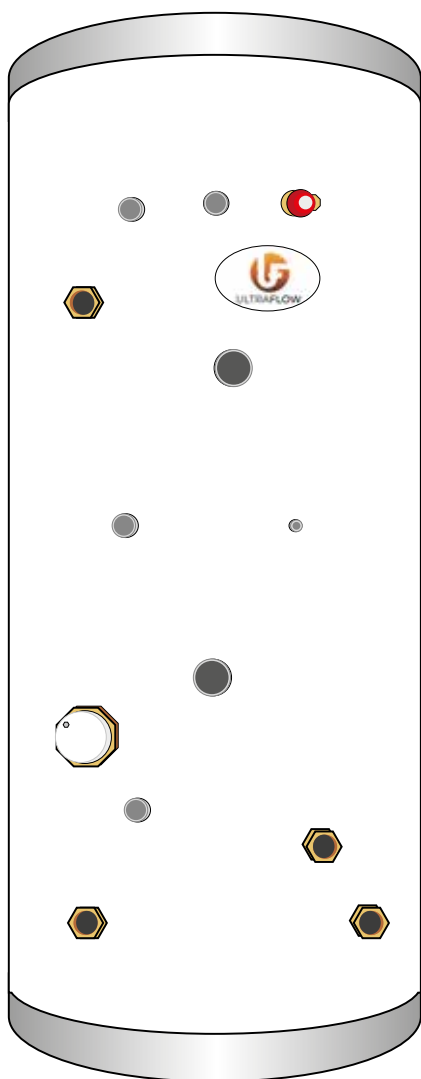
SLIM HEATPUMP UNVENTED

* These cyl come with 1" hot outlet and cold feed and a second immersion heater

Litre	Code	Diameter (mm)	Height (mm)	Nominal capacity (l)	Coil Rating (kw)	Heat Pump Coil surface area (m2)	Immersion heater(s)	Standing Heat Loss		ERP Band	Weight (kg)
								kWH/24h	Watts		
120	UIS120-HP	475	1240	120	23.46	1.61	1	1.25	52	B	33
150	UIS150-HP	475	1505	150	23.46	1.61	1	1.42	59	B	39
170	UIS170-HP	475	1680	170	24.67	2.08	1	1.70	71	C	45
200	UIS200-HP	475	1950	200	24.64	2.08	1	1.80	75	C	48

Dimension are to be used as guideline only

ULTRAFLOW SOLAR HEAT PUMP



Specifications

- 25 year warranty on cylinders and 2 year on parts
- Fully insulated with 50mm insulation to minimize heat loss
- Manufactured with high grade Duplex Stainless steel
- Supplied complete with high quality unvented kit (page 20)
- 10mm sensor probe pocket included for heat pump control
- Highly efficient coil to maximise heat exchange with heat pump.
- High quality 3kW incoloy immersion heater supplies
- Secondary return on 200Ltr and above cylinders on std models

Upgrades available on request

- Highflow cyl with 1" hot and cold conn & 28mm inlet group
- 6kW incoloy, 3kW or 6kW titanium immersion
- Extra Immersion(s)
- Larger capacity expansion vessel
- 400L & 500L to 4m² Coil

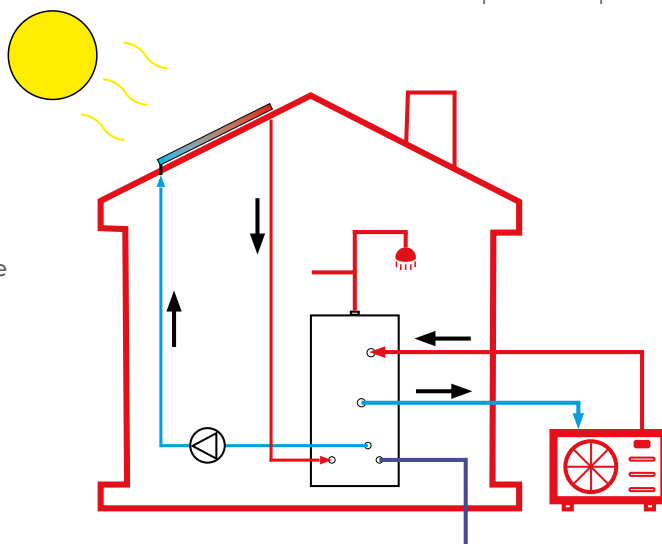
Connection Sizes

3/4" comp:	Hot Draw, Cold Feed, Sec Ret & Solar Coil Conns
1" F:	HP flow and HP return
1 3/4" F:	Immersion(s)
1/2" F:	T & P relief Valve

An increasing number of applications too are making use of a hot water tank in combination with solar PV, turning the cylinder into a thermal battery during the daytime, for use in the evening and the following morning.

Ultraflow unvented cylinders come with the immersion heater sited as low as possible to maximise usable hot water from PV diverter-style applications, ensuring the perfect marriage of renewable technologies, and the future-proofing of your home.

Note on pv compatibility



STANDARD HEATPUMP SOLAR TWIN COIL

Litre	Code	Diameter (mm)	Height (mm)	Nominal capacity (l)	Heat Pump Coil Rating (kw)	Heat Pump Coil surface area (m2)	Solar Coil Surface Area (m2)	Solar Coil Rating (kW)	Immersion heater(s)	Standing Heat Loss		ERP Band	Weight (kg)
										kWh/24h	Watts		
170	UWI170-HP	545	1224	170	24.67	2.08	0.48	17.8	1	1.63	68	C	46
200	UWI200-HP	545	1414	200	31.5	2.97	0.48	18.76	1	1.70	71	C	52
250	UWI250-HP	545	1722	250	33.08	2.97	0.48	19.65	1	1.99	83	C	56
300	UWI300-HP	545	1945	300	35.44	2.97	0.48	21.24	1	2.26	94	C	60
400 *	UWI400-HP	690	1580	400	36.94	3.02	0.88	19.63	2	1.95	81	C	83
500 *	UWI500-HP	690	1910	500	36.44	3.02	0.88	19.92	2	2.31	96	C	99

* These cyl come with 1" hot outlet and cold feed and a second immersion heater.

Dimension are to be used as guideline only

ULTRAFLOW HEATPUMP HORIZONTAL

Specifications

- 25 year warranty on cylinders and 2 year on parts
- Fully insulated with 50mm insulation to minimize heat loss
- Manufactured with high grade Duplex Stainless steel
- Supplied complete with high quality unvented kit (page 20)
- 10mm sensor probe pocket included for heat pump control
- Highly efficient coil to maximise heat exchange with heat pump
- High quality 3kW incoloy immersion heater supplies
- Secondary return on 200Ltr and above cylinders on std models
- Our heat pump horizontal cylinder comes with a unique stat pocket that allows monitor probe positioning in the cylinder to maximise hot water capacity from the horizontal tank.

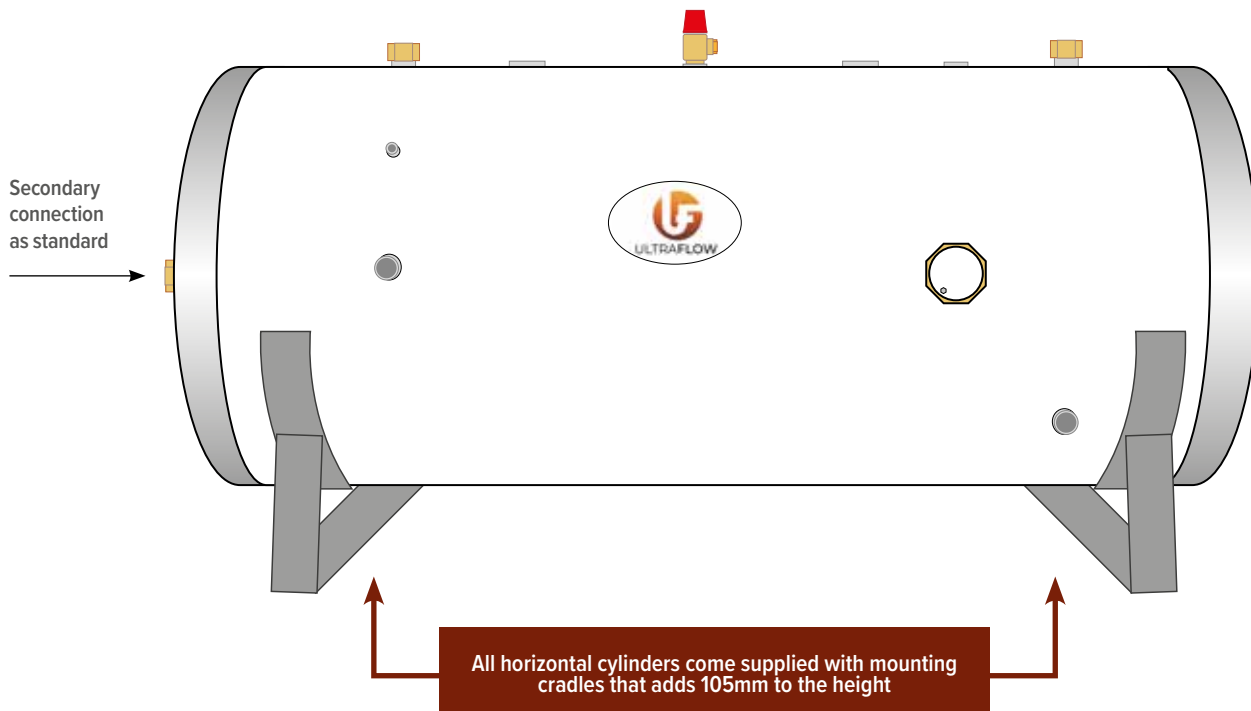
Upgrades available on request

- Highflow cyl with 1" hot and cold conn & 28mm inlet group
- 6kW incoloy, 3kW or 6kW titanium immersion
- Extra Immersion(s)
- Larger capacity expansion vessel

Connection Sizes

3/4" comp:	Hot Draw, Cold Feed, Sec Ret
1" F:	HP flow and HP return
1 3/4" F:	Immersion(s)
1/2" F:	T & P relief Valve

INDIRECT HORIZONTAL CYLINDERS ARE AVAILABLE IN SLIMLINE 475MM DIAMETER UPTO 200 LTR ON REQUEST.

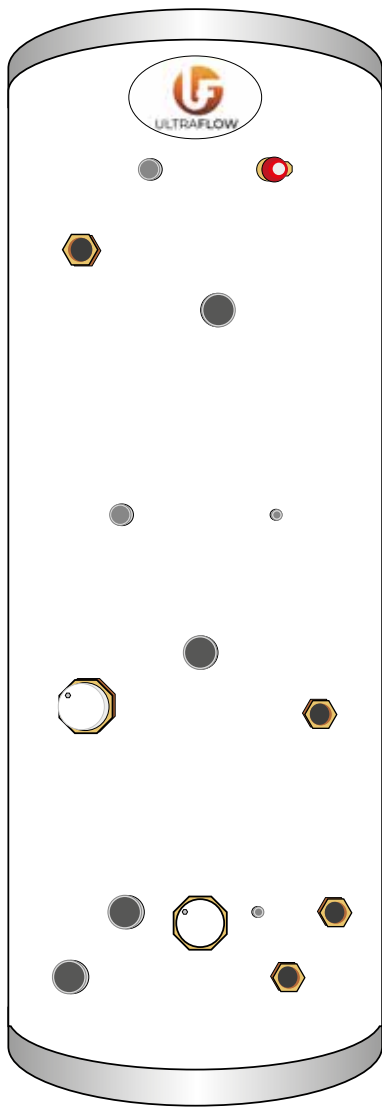


STANDARD HEATPUMP HORIZONTAL

Litre	Code	Diameter (mm)	Height (mm)	Nominal capacity (l)	Heat Pump Coil Rating (kw)	Heat Pump Coil surface area (m2)	Immersion heater(s)	Standing Heat Loss		ERP Band	Weight (kg)
								kWH/24h	Watts		
170	UIH170-HP	545	1224	170	24.67	2.08	1	1.89	79	C	43
200	UIH200-HP	545	1414	200	31.50	2.97	1	2.01	84	C	49
250	UIH250-HP	545	1722	250	33.08	2.97	1	2.16	90	C	53
300	UIH300-HP	545	1945	300	35.44	2.97	1	2.35	98	C	57

Dimension are to be used as guideline only

ULTRAFLOW HEATPUMP BUFFER COMBO



Specifications

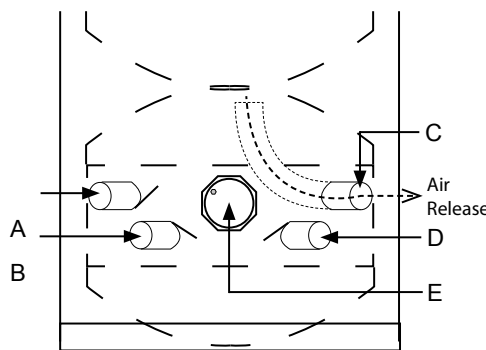
- 25 year warranty on cylinders and 2 year on parts
- Fully insulated with 50mm insulation to minimize heat loss
- Manufactured with high grade Duplex Stainless steel
- Supplied complete with high quality unvented kit (page 20)
- 10mm sensor probe pocket included for heat pump control
- Highly efficient coil to maximise heat exchange with heat pump
- High quality 3kW incoloy immersion heater supplies
- Secondary return on 200Ltr and above cylinders on std models

Upgrades available on request

- Highflow cyl with 1" hot and cold connection & 28mm inlet group
- 6kW incoloy, 3kW or 6kW titanium immersion
- Extra Immersion(s)

Connection Sizes

3/4" comp:	Hot Draw, Cold Feed, Sec Ret
1" F:	HP flow, HP return & Buffer Conns
1 3/4" F:	Immersion(s)
1/2" F:	T & P relief Valve



Connections for the integrated buffer are connected as follows:-

- A - Heat Pump Flow
- B - Heat Pump Return
- C - Heating Flow & Air Release
- D - Heating Return
- E - Immersion Heater

In addition, a probe pocket is provided in the buffer for temperature monitoring/control.

STANDARD HEATPUMP BUFFER COMBO

Litre	Code	Diameter (mm)	Height (mm)	Nominal capacity (l)	Coil Rating (kw)	Heat Pump Coil surface area (m2)	Immersion heater(s)	Standing Heat Loss		ERP Band	Weight (kg)
								kWH/24h	Watts		
150	UOTI150/50	545	1502	150/50	24.67	2.08	1/1	1.22	44	C	41
170	UOTI170/50	545	1630	170/50	24.67	2.08	1/1	1.63	68	C	55
200	UOTI200/50	545	1805	200/50	31.50	2.97	1/1	1.70	71	C	60
225	UOTI225/50	545	1966	225/50	33.08	2.97	1/1	1.99	83	C	63
250	UOTI250/70	580	1927	250/70	33.08	2.97	1/1	1.91	80	C	69
300	UOTI300/70	580	2107	300/70	35.44	2.97	1/1	1.96	82	C	76

SLIM HEATPUMP BUFFER COMBO

Litre	Code	Diameter (mm)	Height (mm)	Nominal capacity (l)	Coil Rating (kw)	Heat Pump Coil surface area (m2)	Immersion heater(s)	Standing Heat Loss		ERP Band	Weight (kg)
								kWH/24h	Watts		
120	UOTIS120/30	475	1617	120/30	23.46	1.61	1/1	1.25	52	C	40
150	UOTIS150/30	475	1885	150/30	23.46	1.61	1/1	1.42	59	C	53
170	UOTIS170/30	475	2050	170/30	24.67	2.08	1/1	1.70	71	C	55

* These cyl come with 1" hot outlet and cold feed and a second immersion heater.

Dimension are to be used as guideline only

ULTRAFLOW AIR INDIRECT

Specifications

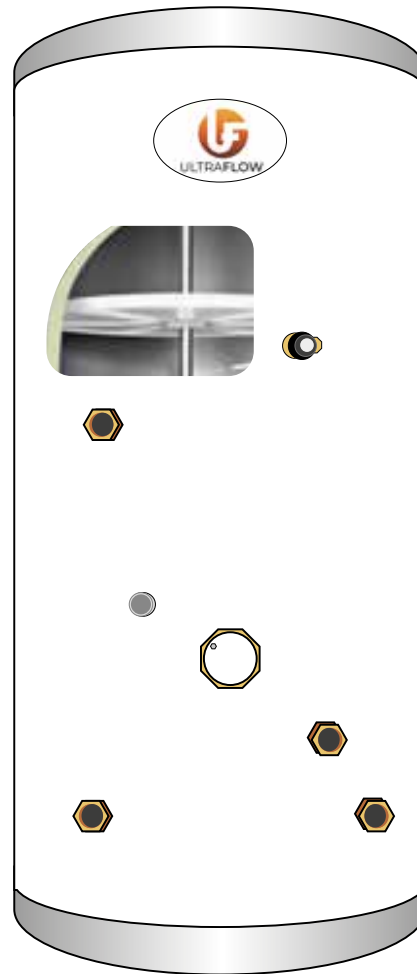
- Internal expansion cylinder
- 25 year warranty on cylinders and 2 year on parts
- Fully insulated with 50mm insulation to minimize heat loss
- Manufactured with high grade Duplex Stainless steel
- Supplied complete with high quality unvented kit (page 20)
- Mechanical cylinder stat included
- Highly efficient coil to minimize reheat time & save fuel
- High quality 3kW incoloy immersion heater supplies
- Secondary return on 200Ltr and above std cylinders

Upgrades available on request

- Highflow cyl with 1" hot and cold conn & 28mm inlet group
- 6kW incoloy, 3kW or 6kW titanium immersion
- Extra Immersion(s)
- Bigger coil for high gain / quick recovery

Connection Sizes

3/4" comp:	Hot Draw, Cold Feed, Sec Ret & Coil Conns
1 3/4" F:	Immersion(s)
1/2" F:	T & P relief Valve



STANDARD AIR INDIRECT

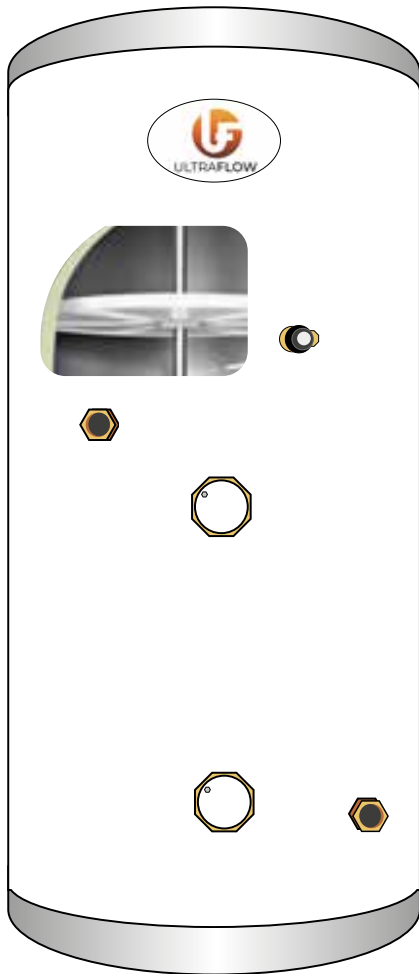
Litre	Code	Diameter (mm)	Height (mm)	Nominal capacity (l)	Coil Rating (kw)	Reheat Time (mins)	Immersion heater(s)	Standing Heat Loss		ERP Band	Weight (kg)
								kWH/24h	Watts		
120	UOI120	545	915	120	17.76	15	1	1.01	42	B	30
150	UOI150	545	1100	150	18.25	18	1	1.20	50	B	38
170	UOI170	545	1224	170	19.35	22	1	1.30	54	B	42
200	UOI200	545	1414	200	19.94	26	1	1.39	58	B	45
250	UOI250	545	1722	250	20.68	29	1	1.44	60	B	51
300	UOI300	545	1975	300	23.57	35	1	1.80	75	C	60

SLIM INDIRECT AIR

Litre	Code	Diameter (mm)	Height (mm)	Nominal capacity (l)	Coil Rating (kw)	Reheat Time (mins)	Immersion heater(s)	Standing Heat Loss		ERP Band	Weight (kg)
								kWH/24h	Watts		
120	UOIS120	475	1240	120	18.76	15	1	1.15	48	B	30
150	UOIS150	475	1505	150	18.82	17	1	1.37	57	C	38
170	UOIS170	475	1680	170	19.22	20	1	1.49	62	C	42
200	UOIS200	475	1950	200	19.36	27	1	1.61	67	C	45

Dimension are to be used as guideline only

ULTRAFLOW AIR DIRECT



Specifications

- Internal expansion cylinder
- 25 year warranty on cylinders and 2 year on parts
- Fully insulated with 50mm insulation to minimize heat loss
- Manufactured with high grade Duplex Stainless steel
- Supplied complete with high quality unvented kit (page 20)
- Mechanical cylinder stat included
- High quality 3kW incoloy immersion heater supplies
- Secondary return on 200Ltr and above std cylinders

Upgrades available on request

- Highflow cyl with 1" hot and cold conn & 28mm inlet group
- 6kW incoloy, 3kW or 6kW titanium immersion
- Extra Immersion(s)

Connection Sizes

3/4" comp:	Hot Draw, Cold Feed
1 3/4" F:	Immersion(s)
1/2" F:	T & P relief Valve

STANDARD AIR DIRECT

Litre	Code	Diameter (mm)	Height (mm)	Nominal capacity (l)	Immersion heater(s)	Standing Heat Loss		ERP	Band	ERP Efficiency	Weight (kg)
						kWH/24h	Watts				
120	UOD120	545	915	120	2	1.01	42	C		36	26
150	UOD150	545	1100	150	2	1.20	50	C		36	33
170	UOD170	545	1224	170	2	1.30	54	C		37	38
200	UOD200	545	1414	200	2	1.39	58	C		37	41
250	UOD250	545	1722	250	2	1.44	60	C		38	46
300	UOD300	545	1975	300	2	1.80	75	C		38	55

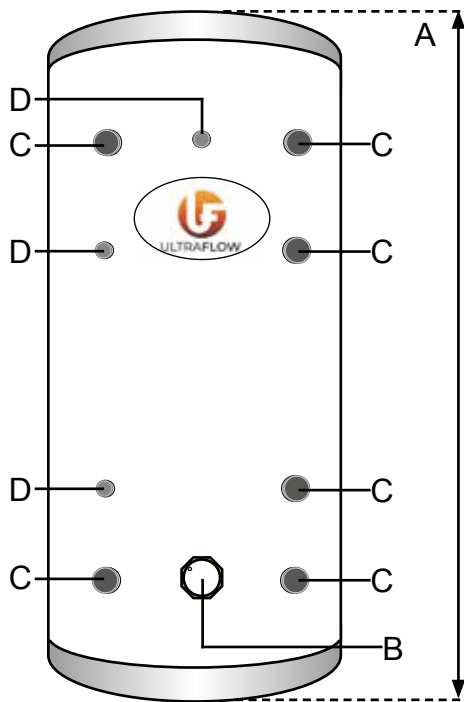
SLIM AIR DIRECT

Litre	Code	Diameter (mm)	Height (mm)	Nominal capacity (l)	Immersion heater(s)	Standing Heat Loss		ERP	Band	ERP Efficiency	Weight (kg)
						kWH/24h	Watts				
120	UODS120	475	1240	120	2	1.15	48	C		36	30
150	UODS150	475	1505	150	2	1.37	57	C		36	38
170	UODS170	475	1680	170	2	1.49	62	C		34	42
200	UODS200	475	1950	200	2	1.61	67	C		37	45

* These cyl come with 1" hot outlet and cold feed and a second immersion heater.

Dimension are to be used as guideline only

ULTRAFLOW BUFFER STORE



Our buffer vessel range is made from duplex stainless steel for longevity, and is offered with a 7-year warranty for peace of mind, as well as being cased and foamed using the same top-of-the-range insulating foam as the rest of the Ultraflow range.

Our floor-standing 50L slim buffer vessel found in the table below, has 5x 1" connections including air release at the top dome.

3x 22mm stat pockets allow for consistent temperature monitoring and maximise system efficiency.

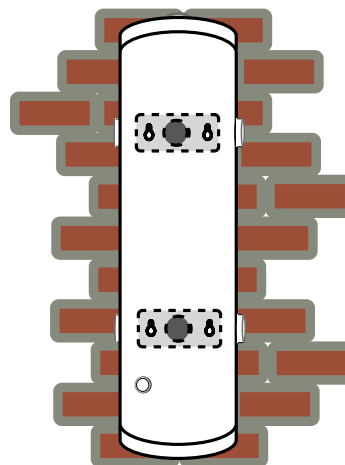
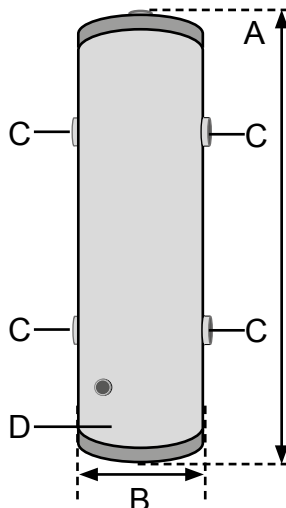
All stainless buffer vessels are available in slimline 475mm diameter up to 200L on request

FLOOR STANDING

	Slim 475mm	Standard Diameter - 545mm							690mm Cylinders	
Product Code	UDS50BUFF	UD90BUFF	UD120BUFF	UD150BUFF	UD170BUFF	UD200BUFF	UD250BUFF	UD300BUFF	UD400BUFF	UD500BUFF
Capacity (L)	50	90	120	150	170	200	250	300	400	500
Height	A 727	727	915	1100	1224	1414	1722	1975	1580	1910
Immersion	B 210	210	210	210	210	210	210	210	270	270
1" in/out	C 190	190	190	190	190	190	190	190	295	295
1" in/out	C 190	190	190	190	190	190	190	190	395	395
1" in/out	C 471	471	325	380	380	380	380	380	485	485
1" in/out	C 471	471	513	596	724	910	1222	1445	465	465
1" in/out	C N/A	N/A	659	846	974	1160	1472	1695	1226	1567
1" in/out	C N/A	N/A	659	846	974	1160	1472	1695	1326	1667
Control Stat	D 325	325	325	420	420	420	420	420	465	465
Control Stat	D 325	325	513	646	774	960	1272	1495	1226	1567
Control Stat	D 471	471	659	846	974	1160	1472	1695	1326	1667

WALLMOUNT/FLOOR STAND

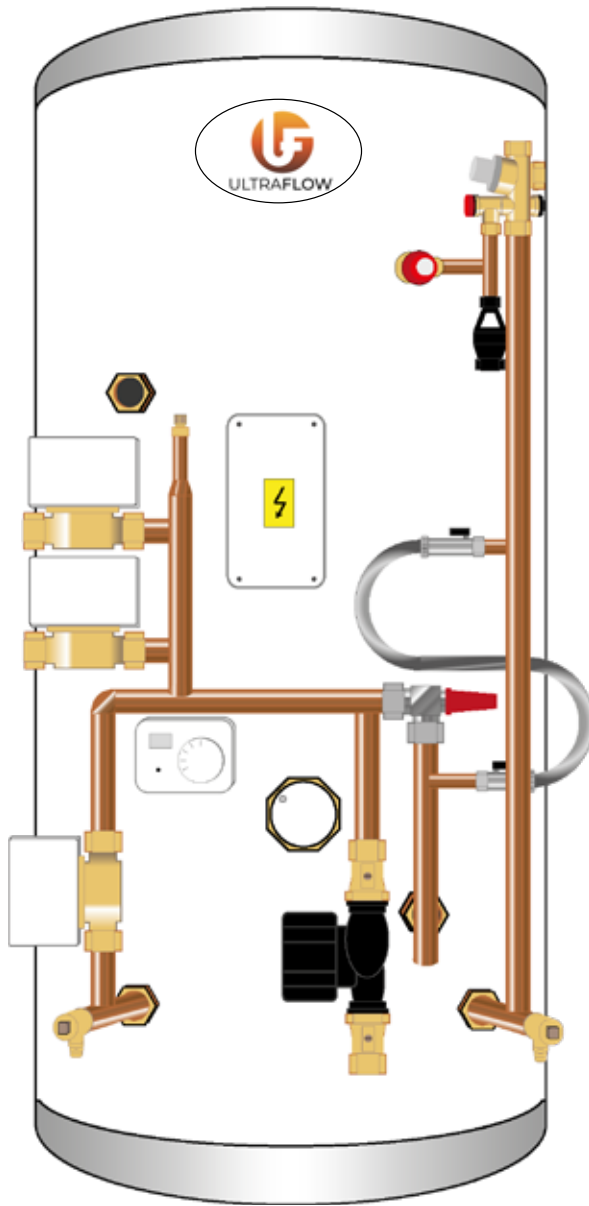
Product Code	UDS-25BUFF/WALL	UDS-50BUFF/WALL
Capacity (L)	25	50
Height	A 848	825
Diameter	B 254	338
1" in/out	C 125	125
1" in/out	C 125	125
1" in/out	C 713	700
1" in/out	C 713	700
Drain Off	D 70	70
1" wall mount	- 225	225
1" wall mount	- 626	625



Our wall-hung vessels come supplied with 2 mounting brackets.

These connect to the buffer via 1" female blanks at the rear of the tank, making for safe, secure mounting onto any wall strong enough to bear the weight of the vessel when full.

ULTRAFLOW INDIRECT PRE PLUMBED



THE MODEL SHOWN HERE IS A TWIN ZONE PRE PLUMB INDIRECT, FOR USE WITH A HEAT-ONLY BOILER

INDIRECT PRE PLUMB - AVAILABLE ON ULTRAFLOW STANDARD, SLIMLINE & ULTRAFLOW AIR.

Our superb range of indirect cylinders, both standard and slim diameter are available pre plumbed to suit either a system boiler (systemfit pre plumb) or a heat-only setup (standard pre plumb).

Each variant of our pre-plumb indirects saves time and money for the installer and allows uniformity in airing cupboards across differing sites. The components used are detailed opposite.

The indirect pre plumb cylinders for heat only boilers comes with:

- 6m head circulating pump
- 22mm bypass valve
- Filling loop
- Primary expansion vessel
- 3 x 22mm two-port zone valves for twin zone heating and DHW.

See page 18 for physical examples of these kit parts.

Systemfit models for use with system boilers are provided with the same world-class components as our regular twin zone pre plumb, except with the absence of a filling loop, 6m head pump, and primary expansion vessel, as these are all provided within the boiler.

Internal expansion Ultraflow Air pre plumb cylinders, in single or twin zone, heat-only and systemfit are all available on request.

Single zone/Triple zone pre-plumbs in both heat-only and systemfit formats are available on request

TWIN ZONE PRE PLUMB

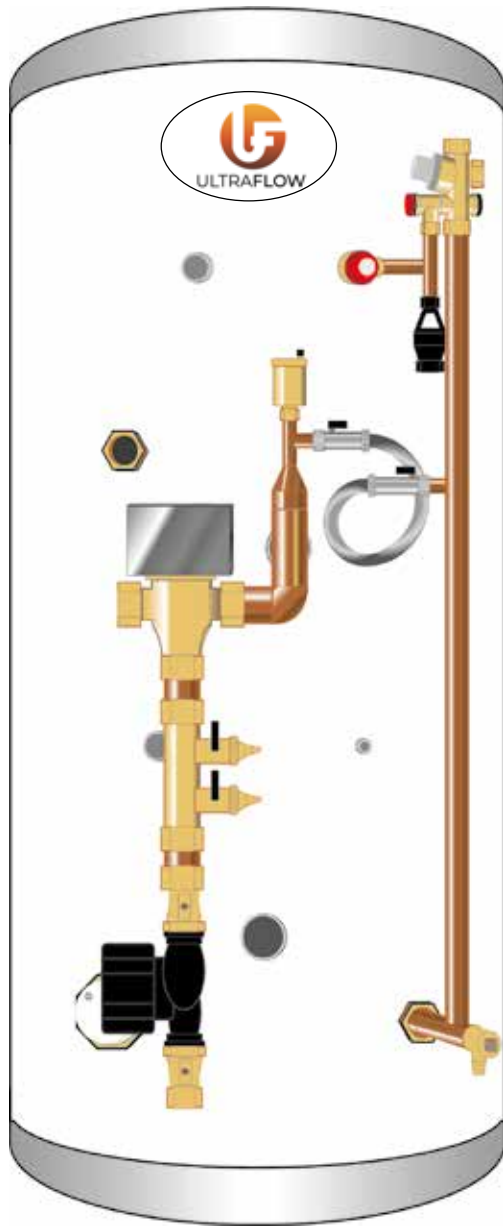
Standard Diameter - 545mm

Heatonly codes	UIP150H	UIP170H	UIP200H	UIP250H	UIP300H
Systemfit codes	UIP150S	UIP170S	UIP200S	UIP250S	UIP300S
Capacity (l)	150	170	200	250	300
Dimension	Please refer to page 4				

Slim Diameter - 475mm

Heatonly codes	UIPS120H	UIPS150H	UIPS170H	UIPS200H
Systemfit codes	UIPS120S	UIPS150S	UIPS170S	UIPS200S
Capacity (l)	120	150	170	200
Dimension	Please refer to page 4			

ULTRAFLOW HEATPUMP PRE PLUMBED



THE MODEL SHOWN HERE IS A HEAT PUMP PRE PLUMBED (WITH PUMP) MODEL

Our range of standard heat pump cylinders are available in a pre plumbed format, incorporating several useful unvented components that will aid in the installation and maintenance of your heat pump system.

The heat pump pre plumb range has been designed with universal installations in mind, making use of intuitive components to suit any application.

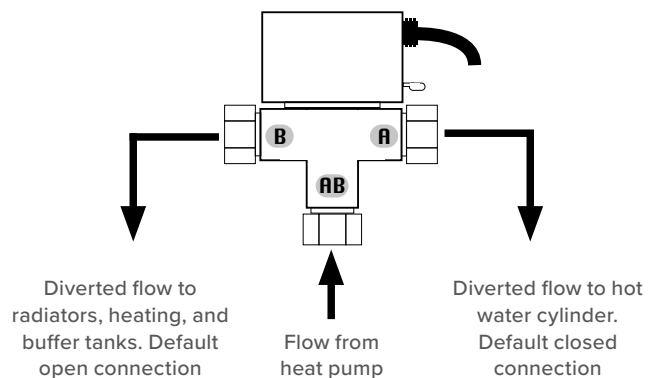
The heat pump pre plumb cylinders in 475mm and 545mm diameter come with:

- 3-port full diverting valve
- Remote filling loop with pressure gauge
- Fill & flush valve for glycol-based applications
- “With pump” models comes with 8m head pump

See page 18 for physical examples of these kit parts.

3-PORT DIVERTER SETUP

The below setup is utilised on our pre plumb cylinders, to enable the 3-port full diverting valve and hot water tank to meet G3 building regulations and requirements



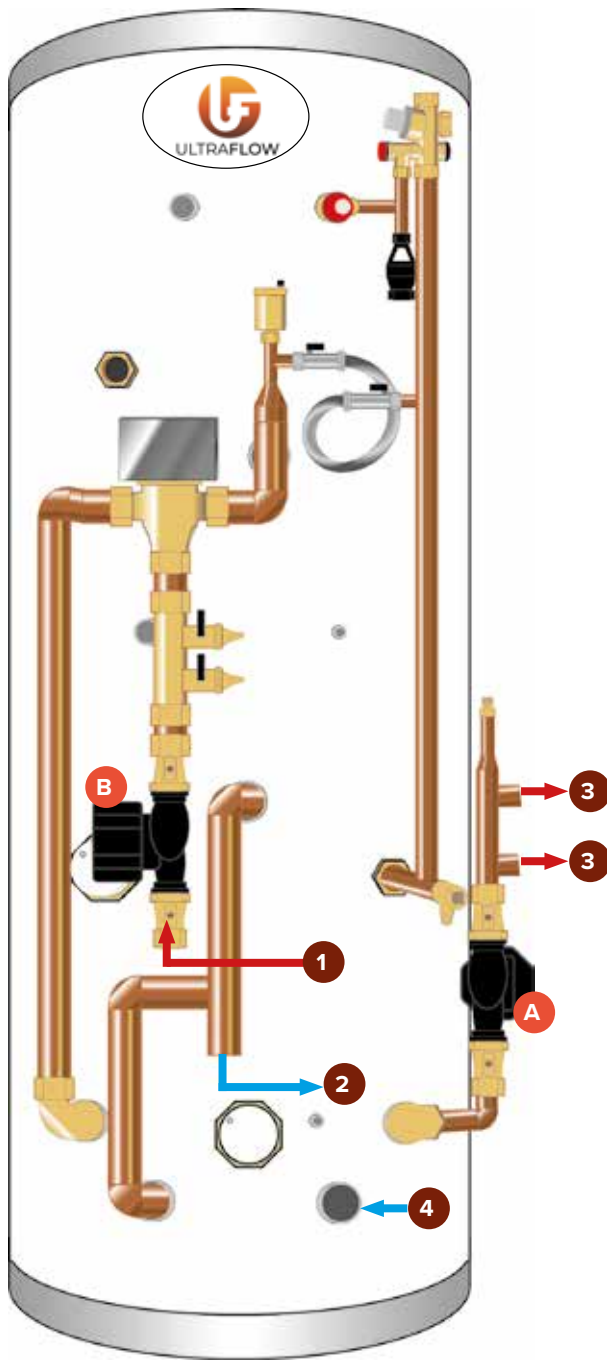
Standard Diameter - 545mm

With Pump	UIP150-HP	UIP170-HP	UIP200-HP	UIP250-HP	UIP300-HP
Without pump	UIP150-HP/X	UIP170-HP/X	UIP200-HP / X	UIP250-HP / X	UIP300-HP / X
Capacity (L)	150	170	200	250	300
Dimension	Please refer to page 8 for dimensions				

Slim Diameter - 475mm

With Pump	UIPS120-HP	UIPS150-HP	UIPS170-HP	UIPS200-HP
Without pump	UIPS120-HP / X	UIPS150-HP / X	UIPS170-HP / X	UIPS200-HP / X
Capacity (L)	120	150	170	200
Dimension	Please refer to page 8 for dimensions			

HEATPUMP BUFFER COMBO PRE PLUMBED



THE MODEL SHOWN HERE IS A HEAT PUMP BUFFER COMBO PRE PLUMBED (WITH PUMP) MODEL

The buffer combo pre plumb range has been designed with ease and speed of installation in mind. The setup makes use of a logical layout, and a separate buffer-fed heating circuit with a 6m head circulating pump.

The twinned heating return to the heat pump combines both the return from the coil (during DHW heating) and the cold lower temperatures contained within the buffer. It is recommended to install a magnetic filter on the common return to heat pump, to ensure optimal performance and longevity of the heating system.

The heat pump buffer combo pre plumb cylinders come provided with:

- 3-port full diverting valve
- Remote filling loop with pressure gauge
- Fill & flush valve for glycol-based application
- 6m heating circulation pump
- Primary water expansion vessel
- “With pump” models comes with 8 or 9m primary pumps

See page 18 for physical examples of these kit parts.

- 1 Heat Pump Flow (28mm Copper)
- 2 Common Return to Heat Pump (28mm Copper)
- 3 Flow to Zone Heating, and Buffer Air Release (22mm Copper)
- 4 Return from Heating (1" BSP)
- A A 6m head circulating pump is already included for zone heating to point 3
- B 8m standard or 9m PWM primary pumps are available with pump models for heat pump circulation into point 1

TAPPING HEIGHTS

All tapping heights follow standard and slimline heat pump patterns as seen on page 11, with the addition of the cold water inlet set being fitted at the top of the cylinder.

ADDITIONAL TAPPINGS

Diameter	Standard 545mm	Slimline 475mm
Return from Heating Circuit (1")	180	154
Flow out to Zone 1 Heating (22mm)	580	542
Flow out to Zone 2 Heating (22mm)	715	675

Standard Diameter - 545mm

With Pump	UIP150/50-HP	UIP170/50-HP	UIP200/50-HP	UIP225/50-HP	UIP250/70-HP	UIP300/70-HP
Without pump	UIP150/50-HP/X	UIP170/50-HP/X	UIP200/50-HP/X	UIP225/50-HP/X	UIP250/70-HP/X	UIP300/70-HP/X
Capacity (L)	150	170	200	225	250	300
Buffer (L)	50	50	50	50	50	50

Slim Diameter - 475mm

With Pump	UIPS150/30-HP	UIPS170/30-HP
Without pump	UIPS150/30-HP/X	UIPS170/30-HP/X
Capacity (L)	150	170
Buffer (L)	30	30

PREPLUMBED COMPONENTS THAT WE SUPPLY

INDIRECT PRE PLUMB COMPONENTS

The following components have been meticulously chosen to work with our indirect pre plumb, because of their ease of use, longevity as part of a heating system, or a combination of this. All parts come with a two-year warranty for peace of mind.



Reflex Primary Expansion Vessel



Dual Thermostat with anti-legionella mode



Altecnic Filling Loop



High Quality 3 Channel Programmer & 2x Room Stat



High Quality 22mm 2-port zone valve



Stuart Turner 6m circulating pump



22mm automatic bypass valve

HEAT PUMP PRE PLUMB COMPONENTS

The following components have been chosen for the benefit of the installer/end user, or for longevity as part of a system.

	Heat Pump Pre Plumbed		
	Heat Pump Cyl	Heat Pump Buffer Combo	With Pump Models
Remote Filling Loop with integrated Pressure Gauge	•	•	
Honeywell V4044 Model 3-Port Divertor Valve	•	•	
Altecnic Balancing Valve with Flow Meter (Optional extra)			
Altecnic Caleffi 28mm Flush & Fill Valve	•	•	
Lowara Ecocirc 6M Head Pump		•	•
22mm Resido Honeywell 2 Port Valve V4043H		•	
Lowara Ecocirc 8M Head Pump OR Grundfos UPM4XL 9M Head PWM Pump			•



Remote filling loop with integrated pressure gauge



Resideo Honeywell V4044 model 3-Port Divertor Valve



Altecnic balancing valve with flow meter



Altecnic Caleffi 1241502 28mm Flush & Fill Valve



Lowara Ecocirc 6m head pump



22mm Resideo Honeywell 2-port valve V4043H



Lowara Ecocirc 8m head pump



Grundfos UPM4XL 9m head PWM pump

COMPONENTS WE SUPPLY

The Ultraflow portfolio of cylinders come provided with all unvented components required to satisfy G3 building regulations.

All components come supplied with one year warranty against manufacturing defects and are sourced from reputable suppliers within the industry. For a guide of which components are supplied with each cylinder, please see our installation guidance and help desk on page 21.



altecnic caleffi 533112
CST 3 bar/6 bar manifold
inlet control group



22mm/28mm resideo
honeywell 2-port zone
valve V4043H Model



HIGH QUALITY single
high limit thermostat



3kW incoloy 14"
immersion



15mm x 22mm
tundish



Temperature & pressure
relief valve insulation cover



dualct mechanical dual
cylinder thermostat



zilmet 12L/19L/24L
potable water
expansion vessel



altecnic caleffi 309473 CST 90C/7
bar temperature & pressure relief
valve

Optional upgrades

- 1" hot and cold connections, with 28mm inlet control set.
- 6kw immersion heaters.
- Titanium immersion heaters.
- Extra immersions (direct, indirect and heat pump models).
- Large capacity expansion vessels.
- Secondary returns for direct or slim cylinders that don't include them as standard
- Bespoke/large surface area cylinder coils (available as part of our custom cylinder design service).

PRESSURE ACCUMULATOR TANKS AVAILABLE IN DIFFERENT SIZES.

INSTALLATION GUIDE AND HELP DESK

All of our hot water cylinders have been designed with the installer in mind, with all connections accessible from the front of the cylinder. Additionally, all units come provided with an unvented kit that allows the cylinder to operate safely and meet G3 building regulations. All of the accompanying pieces must be fitted with the installation

to validate our 25-year cylinder warranty, unless agreed in writing beforehand with our specialist team.

A guide for the kit that accompanies each type of cylinder is given in the table below:

	Direct	Indirect	Direct Solar	Twin Coil Solar	Direct Air	Indirect Air	Horizontal	Heat Pumps
3 bar / 6 bar Cold Water Inlet Set	•	•	•	•			•	•
3 bar / 8 bar Cold Water Inlet Set					•	•		
15mm x 22mm Tundish	•	•	•	•	•	•	•	•
90°C / 7 bar Temperature & Pressure Relief Valve	•	•	•	•			•	•
90°C / 10 bar Temperature & Pressure Relief Valve					•	•		
Expansion Vessel & Bracket	•	•	•	•			•	•
22mm 2-port zone valve		•		•		•	•	
28mm 2-port zone valve								•
Dual Thermostat		•		•		•	•	
High Limit Cut-out Thermostat			•	•				•

Expansion vessel sizing

Expansion vessels are sized accordingly to each hot water cylinder and are given here.

Air cylinders do not require an external expansion vessel to be fitted, as they have space provision within the unit for an air gap to form and be maintained through annual service.

If you have any questions on the sizing of vessels for other provisions in your hot water system, please speak to our team.

	12L	19L	24L	35L	50L
60 - 150L Cylinders	•				
170 - 250L Cylinders		•			
300L - 400L Cylinders			•		
500L Cylinders				•	
600L Cylinders					•

Immersion heaters

Immersion heaters are provided as standard, 2 in direct models 120-300L, and 1 in 90L direct models, and all indirects. These are long life incoloy 3kW 1 3/4" BSP, and should be wired according to the latest IEE regulations by a competent installer.

Mains water supply

All Ultraflow and Ultraflow Air models require a minimum of 1.5 bar (max 10 bar) mains pressure and 20 litres per minute flow rate to ensure that the cylinder meets its minimum capabilities. Water hardness should also meet the requirements detailed in our installation manual.

Higher pressure and flow rates will result in a higher performance from the cylinder. Per G3 regulations, our cylinders should be fitted with the provided cold water inlet set, to safely balance the mains pressure to 3 bar.

Secondary return

As standard, a secondary return tapping is only fitted on models of 200L and above. Other sizes and models can be fitted with a secondary return on request.

Boiler compatibility

The Ultraflow and Ultraflow Air families of cylinders are compatible with any appliance that is fitted with an integral control thermostat, and its own energy cut-out, such as natural gas and oil boilers.

Solid fuel appliances such as Aga, Rayburn etc, without full thermostatic control cannot normally be installed with an unvented unit.

Heat pump compatibility

The Ultraflow heat pump range of unvented cylinders are compatible with any air source or ground source heat pump application, provided that a suitable level of frost protection exists within the system, such as frost prevention valves, or the use of glycol or other suitable heat transfer media.

A high limit cut-out thermostat is provided with all models, and should be fitted to the cylinder and connected, to comply with G3 regulations.

Guarantee overview

The Ultraflow stainless steel inner vessel on the Ultraflow and Ultraflow Air ranges of products carry a 25-year warranty, applicable from the date of purchase. The guarantee covers material defect or manufacturing faults in domestic use only.

All components supplied with Ultraflow Cylinders products carry warranty against material defects or manufacturing faults for 2 years from date of purchase.

Full details of terms, conditions and exclusions can be found in the installation manual provided with your cylinder

Selection guidance

Hot Water Demand	Bedrooms	Indirect	Direct	Heat Pump
1 Standard Bathroom or Shower	Bedsit / 1	60 / 90	150	120
	2 - 3	120	170	150
	3 - 4	150	200	170
1 Standard Bathroom	2 - 3	120	170	150
	3 - 4	150	200	170
1 Standard Bathroom and En-Suite	2 - 3	150	200	170
	3 - 4	150	200	170
	4 - 5	170	250	200
2 Standard Bathrooms	2 - 3	170	200	200
	3 - 4	200	200	225
	4 - 5	200	250	250
3 Standard Bathrooms	3 - 4	250	300	225
	4 - 5	250	300	250
	5 - 6	300	300	300

The selection table here is to be used as a guide only, and full cylinder sizing if unsure for bespoke requirements should be calculated by a domestic heating engineer.

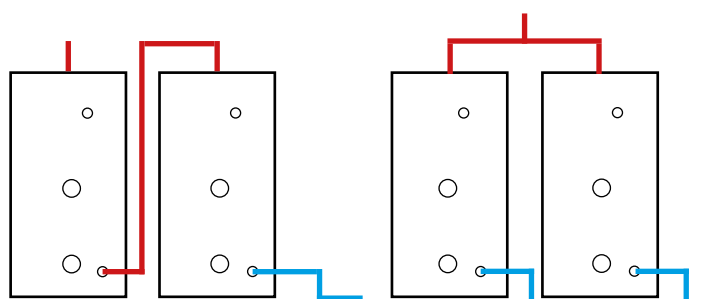
For sizing on commercial units, although we similarly can provide rough guidance on sizing, this should primarily be carried out by a trade professional.

If you have any questions on sizing for unvented cylinders, please speak to our team.

Connecting units together

An alternative to large capacity tanks for commercial and/or larger domestic applications is connecting tanks together. This can be done in series or parallel.

For situations requiring higher flowrates, we would recommend units being fitted in parallel.



Series - The hot outlet of one unit becomes the cold feed for the next.

Parallel - The cold feeds and hot outlets of all units are connected.

How can we help?

Can't immediately find what you're looking for? Need a cylinder urgently? Let our expert team help you with your enquiry, and help create a bespoke solution for you, and for your customer.

Please contact us at sales@ultraflowuk.com, or on **020 8443 5111**

UNDERFLOOR HEATING

Manifold

Code	Description	Details
UFMAN-2	2 Port 16mm stainless steel manifold set	Each set comes complete with; <ul style="list-style-type: none"> • Pair of isolation valve with temperature gauge • Pair of auto air vent • Pair of drain off • Pair of end cap • 16mm pipe connectors (Euro cone) • Manifold brackets
UFMAN-3	3 Port 16mm stainless steel manifold set	
UFMAN-4	4 Port 16mm stainless steel manifold set	
UFMAN-5	5 Port 16mm stainless steel manifold set	
UFMAN-6	6 Port 16mm stainless steel manifold set	
UFMAN-7	7 Port 16mm stainless steel manifold set	
UFMAN-8	8 Port 16mm stainless steel manifold set	
UFMAN-9	9 Port 16mm stainless steel manifold set	
UFMAN-10	10 Port 16mm stainless steel manifold set	
UFMAN-11	11 Port 16mm stainless steel manifold set	
UFMAN-12	12 Port 16mm stainless steel manifold set	



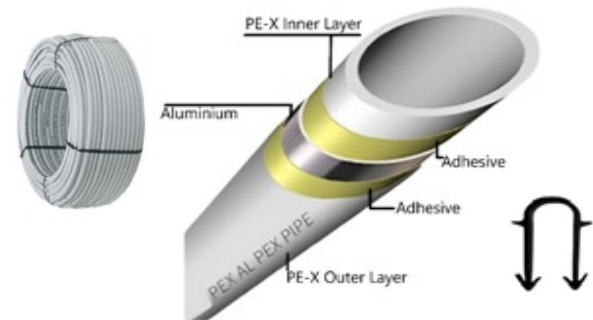
Mixing Valve / Pump Set & 2 Port Valve

Code	Description	Details
UFMU-GF	Mixing unit with temp and pressure gauge complete with "Grundfos UPM3 25-70" Pump	1" connection
UFMU-Wilo	Mixing unit with temp and pressure gauge complete with "Wilo 25/69-43SCU" Pump	1" connection
HW2P-22	Honeywell 2 Zone motorised Valve - 22mm	



UFH Multilayered Pipes (WRAS approved) & Clips

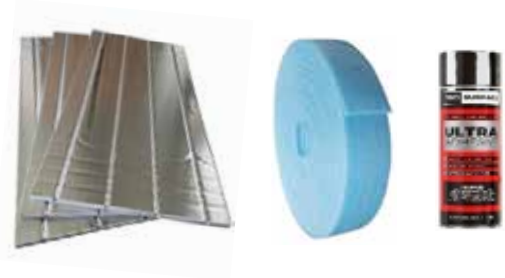
Code	Description	Details
UFPEX12-80	Pex-Al-Pex UFH multilayered pipe - 80M	12mm x 1.6mm
UFPEX16-100	Pex-Al-Pex UFH multilayered pipe - 100M	16mm x 2.0mm
UFPEX16-150	Pex-Al-Pex UFH multilayered pipe - 150M	16mm x 2.0mm
UFPEX16-200	Pex-Al-Pex UFH multilayered pipe - 200M	16mm x 2.0mm
UFPEX16-500	Pex-Al-Pex UFH multilayered pipe - 500M	16mm x 2.0mm
UFCLIP40	40mm Staple Clips for UFH pipes	300pieces/pack
UFCLIP60	60mm Staple Clips for UFH pipes	300pieces/pack



XPS400 Overlay board, Aluminium Spreader Plate, Edge Insulation & XPS Glue

Our boards come with aluminium foil to achieve quick even spread of heat across the floor. XPS boards have better insulation and moisture resistant properties as compared with EPS boards. Our boards are suitable for wooden and screed sub-floor. Can be tiled on straight using solvent free adhesive

Code	Description	Details
XPS400-2016	XPS400 low profile 20mm high ultra response board with 200 microns of aluminium for 16mm pipe	600mm x 1200mm x 20mm (0.72m ²)
XPS400-1612	XPS400 low profile 16mm high ultra response board with 200 microns of aluminium for 12mm pipe	600mm x 1200mm x 16mm (0.72m ²)
UFASP	Aluminium Spreader Plate for use on 400mm centered wooden joist	390mm x 1000mm (0.39m ²)
UFEI-25M	Premium self adhesive edge insulation roll - 25M	100mm x 8mm
UFSG-500	500ml XPS spray glue	Covers approx 5m ²
UFSG-22	22ltr XPS spray glue (canister)	Covers approx 200m ²
UFPCR	Pipe clip rail to suit 15-18mm pipe - self adhesive	1 Meter length



Highly efficient system at affordable prices.



Actuator for Manifold

Code	Description	Details
UFACT	2 Wire Actuator with 1m cable	220-240V AC

Controls

Code	Description	Details
HMUH4	Heatmiser UH4 - 4 Zone 230v Wiring Centre	up to 4 zones
HMUH8	Heatmiser UH8 - 8 Zone 230v Wiring Centre	up to 8 zones
HMUH8-RF	Heatmiser UH8 Remote frequency - 4 Zone 230v Wiring Centre	up to 8 zones / RF
HMNS-W	Heatmiser NeoStat v2 Programmable Smart Thermostat - White	hard wired
HMNA-W	Heatmiser NeoAir v3 wireless programmable Smart Thermostat - White	wireless
HMNH	Heatmiser NeoHub v2 Neo System Gateway	Enables app connection with thermostat

Spares

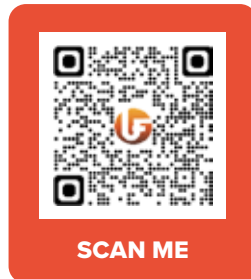
Code	Description	Details
UFIVWT	Pair of isolation valve with temperature gauge	1" F x 1" M
UFAV	Auto air vent for manifold	1/2" M
UVDO	Drain off for manifold	1/2" M
UFES	End Stop for manifold	1" M
UFFM	Flow meter for manifold	1/2" M
UFPC1216	Manifold outlet pipe connector - Euro cone	For 12mm x 1.6mm pipe
UFPC1520	Manifold outlet pipe connector - Euro cone	For 15mm x 2.0mm pipe
UFPC1620	Manifold outlet pipe connector - Euro cone	For 16mm x 2.0mm pipe
UFPEX1615R	16mm x 2.0mm Pex-Al-Pex to 15mm Comp reducer	16x2.0mm -15mm
UFPEX1616C	16mm x 16mm straight pex connector	16mm - 16mm straight





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